PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See Form PCT/IPEA/416					
030044PC						
International application No.	International filing date (day/month/ye					
PCT/SE 2004/000129	02-02-2004	25-03-2003				
International Patent Classification (IPC) or national classification and IPC						
H04H 1/00						
Applicant						
AIRNET HOLDINGS AB et	al	,				
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 						
2. This REPORT consists of a total of	of 3 sheets, including the	is cover sheet.				
3. This report is also accompanied by	ANNEXES, comprising:					
a. (sent to the applicant and to the International Bureau) a total of 2 sheets, as follows:						
a La (source the approach	•	ch have been amended and are the basis of this report				
and/or sheets	containing rectifications authorized by	this Authority (see Rule 70.16 and Section 607 of the				
	e Instructions).	Authority considers contain an amendment that goes				
beyond the dis	sclosure in the international application	as filed, as indicated in item 4 of Box No. I and the				
Supplemental	Box.					
b. (sent to the Internatio	nal Bureau only) a total of (indicate typ	ne and number of electronic carrier(s))				
mandable forms only a		listing and/or tables related thereto, in computer				
Administrative Instru		elating to Sequence Listing (see Section 802 of the				
4. This report contains indications re	lating to the following items:					
Box No. I Basis of	the report					
Box No. II Priority						
Box No. III Non-est	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of	unity of invention					
Box No. V Reasons	ed statement under Article 35(2) with regard to novelty, inventive step or industrial					
	pility; citations and explanations supporting such statement					
	documents cited					
L_J	defects in the international application					
Box No. VIII Certain observations on the international application						
Date of submission of the demand	Date of com	pletion of this report				
		•				
12-10-2004	22-06-	22-06-2005				
Name and mailing address of the IPEA/SE	Authorized of	officer				
Patent- och registreringsverket Box 5055						
S-102 42 STOCKHOLM	Elisab	et Åselius/MN				
Facsimile No. +46 8 667 72 88		Telephone No. +46, 8, 782, 25, 00				

Form PCT/IPEA/409 (cover sheet) (January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE 2004/000129

Box	No. I	Basis of the report			
1.	 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. This report is based on a translation from the original language into the following language 				
		which is the language of a translation furnished for the purposes of:			
		international search (under Rules 12.3 and 23.1(b))			
		publication of the international application (under Rule 12.4)			
		international preliminary examination (under Rules 55.2 and/or 55.3)			
2.	2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):				
		the international application as originally filed/furnished			
	\boxtimes	the description:			
		pages 1-7 as originally filed/furnished			
		pages* received by this Authority on			
,	\square	pages* received by this Authority on the claims:			
		pages as originally filed/furnished pages* as amended (together with any statement) under Article 19			
		pages* 1-2 received by this Authority on 22-02-2005			
		pages* received by this Authority on			
	\boxtimes	the drawings:			
		pages 1 as originally filed/furnished			
		pages* received by this Authority on			
		received by this Authority on			
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.			
3.		The amendments have resulted in the cancellation of:			
		the description, pages			
		the claims, Nos.			
		the drawings, sheets/figs			
	the sequence listing (specify):				
		any table(s) related to the sequence listing (specify):			
4.	4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).				
		the description, pages			
		the claims, Nos.			
		the drawings, sheets/figs			
	the sequence listing (specify):				
		any table(s) related to the sequence listing (specify):			
*	* If item 4 applies, some or all of those sheets may be marked "superseded."				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE 2004/000129

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims Claims	1-6	YES NO
Inventive step (IS)	Claims Claims	1-6	YES NO
Industrial applicability (IA)	Claims Claims	1-6	YES NO

2. Citations and explanations (Rule 70.7)

The claimed invention relates to a method for sending large volumes of information to one or more personal computers from a database, via a digital high-speed network such as a DAB radio network, in a way that minimizes the time the personal computer has to spend online.

Documents cited in the International Search Report:

D1: "IP based enhanced data casting services over radio broadcast networks" Kellerer, w. et al.

D2: "A distributed proxy server system for wireless mobile Web service" Kisup k. et al.

D3: WO 9914775 A1 D4: GB 2313981 A

D5: US 2003/0054804 A1

D6: WO 0178350 A1

D1 describes a method of sending large volumes of information from a database to one or more personal computers or corresponding devices via a DAB radio network, (fig.1). A proxy server is provided between the personal computer and the server, (fig.5). The proxy server may store the information and check that the information is complete, (section 3.3). The information may be given an identification code in order to make it readable only to the terminal that requested the information, (p.201, col.2).

Documents D2-D6 reveal the state of the art concerning information transfer via DAB.

D1-D6 do not mention that a proxy server selectively either forwards the information directly, or checks whether it is complete first. Nor do the documents mention that there is a proxy server on the side of the sender. Thus, the claimed invention fulfils the requirements of novelty, inventive step and industrial applicability.

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CLAIMS

- 1. A method of sending large volumes of information to one or more personal computers (1) or corresponding devices from a database (2) or corresponding device, such as a company's product line stored in connection with the company's home page or a portal, wherein the personal computer (1) can be connected, via a communications network (5), such as the Internet, to said database (2) which includes a computer in the form of a server (6), wherein the database contains said information and wherein a user is able to ask for information during such a connection via the personal computer (1) wherein a digital network (7-10) having a high transmission speed, such as a DAB radio network, comprising a transmitter means (7) and a receiver (8) can be caused to send said requested information and wherein the information is caused to be received by a receiver (8) in the possession of the user, wherein requested information in the database (2) is given an identification code which is sent to said receiver (8), wherein said receiver is caused to analyse the received DAB signal with regard to said identification code, wherein the method is characterised by providing a so called proxy server between the personal computer (1) and the server (6), respectively between said server (6) and said transmitter means (7) wherein said proxy server (4) is caused selectively to either forward the collected information to the transmitter means (7) for transmission of said information via said radio network (7-10), so that said information can be received in the receiver (8), or to alternatively be transparent for the exchange of information between the server (6) and the personal computer (1), wherein when it is chosen to transfer requested information from the server (6) via said network (7-10) to said receiver (8), via the proxy server, the proxy server (4) is caused, in response to a request for certain information to the personal computer (1) from the server (6), to fetch said information from the server (6) and therewith check that the information is complete, i.e. that all packets of information have been received, and wherein the proxy server is caused to store the complete collected information and to forward said information to the transmitter means (7).
- 2. A method according to Claim 1, characterised by causing the transmission of information via the radio network (7-10) to be effected without the influence of a possible communications link from the personal computer (1) to the server (4); and by causing the received information to be sent to the personal computer (1).

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- 3. A method according to Claim 1 or 2, characterised by making said choice prior to fetching said information from the server (6) to the proxy server (4).
- 4. A method according to Claim 1, 2 or 3, characterised by causing said information to be sent in the form of an information block that includes specific information requested by the personal computer (1).
- A method according to Claim 1, 2, 3 or 4, characterised by causing the requested information to be sent at given time points or as soon as possible; and by causing the proxy server (4) to send to the personal computer (1) a message as to when information requested by the personal computer (1) will be sent.
- 6. A method according to any one of the preceding Claims, characterised in that the digital network is a DAB radio network.

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